Application No.: 09/296,835 Docket No.: M4065.0319/P319

## REPLACEMENT CLAIMS

8. (three times amended) A method of fabricating a semiconductor device comprising:

 $\mathcal{D}_{\prime}$ 

depositing an oxygen-deficient dielectric film having a dielectric constant of at least about 25 over an underlying layer;

subjecting the dielectric film to a wet oxidation with steam provided from a mixture of hydrogen and oxygen gases in a rapid thermal process chamber at a temperature of at least about 450 °C and for a duration which increases the oxygen content of the dielectric film; and

subjecting the dielectric film to a heat treatment in an ambient comprising a stabilizing gas selected from the group consisting of  $N_2$ ,  $O_2$ ,  $O_3$ , NO, and  $N_2O$ .